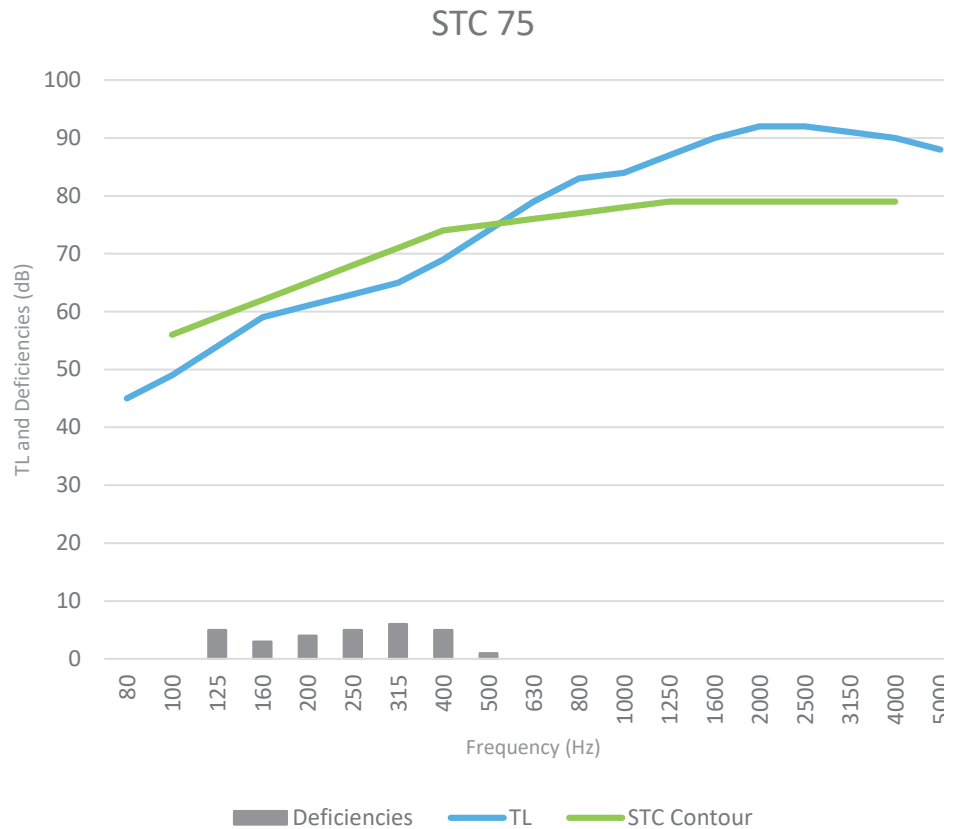


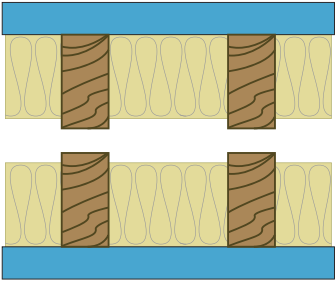









Acoustic Data			
Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-05-040
Assembly Type:	Wall	Test Date:	8/31/2005
Method:	ASTM E90-09	Report Date:	8/31/2005

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	45	
100	49	
125	54	5
160	59	3
200	61	4
250	63	5
315	65	6
400	69	5
500	74	1
630	79	
800	83	
1000	84	
1250	87	
1600	90	
2000	92	
2500	92	
3150	91	
4000	90	
5000	88	
Total Deficiencies		29



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
1-3/8" QuietRock® 545 gypsum panel	608.7 (276.1)	6.30 (30.95)
Double row 2"x4" wood studs spaced 24" oc	182.8 (82.9)	1.90 (9.30)
2 Layers 3-1/2" glass fiber insulation	37.5 (17.0)	0.40 (1.91)
1-3/8" QuietRock® 545 gypsum panel	609.4 (276.4)	6.30 (30.99)
Total	1,438.4 (652.4)	14.90 (73.15)

Test Methods
Test methods follow the published standards listed below. All values derived for single-direction transmission loss measurements.
ASTM E90-09: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
ASTM E413-16: Classification for Rating Sound Isolation

Design Details	Description	Acoustical	Fire
<p>PGD-02-00-020</p> 	<ul style="list-style-type: none">  2-1/4" Type S W drywall screws 16" o.c.  One Layer 1-3/8" QuietRock® 545 applied vertically.  2 x 4 wood studs 24" o.c.  3-1/2" glass fiber insulation in stud space.  3" air gap.  3-1/2" glass fiber insulation in stud space.  2 x 4 wood studs 24" o.c.  One Layer 1-3/8" QuietRock® 545 applied vertically.  2-1/4" Type S drywall screws 16" o.c. 	<p>STC 75 NRCC TLA-05-040</p>	<p>Non-Rated</p>
<p>12-3/4" Thick, 15 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		